

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): An image processing apparatus for processing an image based on an image data set including main image data that represents a main image, thumbnail image data that represents a thumbnail image of the main image, and color space identification information that expresses a color space related to the main image data, the main image data and the thumbnail image data and the color space identification information being associated with one another, wherein the color space identification information can indicate which of multiple color spaces including a prescribed standard color space and a particular color space is to be used, the image processing apparatus comprising:

a data processor configured to select either one of the main image data and the thumbnail image data as processing target image data, and to execute processing including color space conversion of the processing target image data,

wherein the data processor:

if the thumbnail image is the processing target, executes a prescribed basic color space conversion regardless of content of the color space identification information to obtain first converted image data of the thumbnail image, and

if the main image is the processing target, executes a specified color space conversion utilizing a color space specified by the color space identification information to obtain second converted image data of the main image ,

the first and second converted image data being expressed by an identical color system.

2. (original): An image processing apparatus according to Claim 1, wherein the color space specified by the color space identification information is the particular color space.

3. (currently amended): A method for processing an image, comprising:
providing an image data set including main image data that represents a main image, thumbnail image data that represents a thumbnail image of the main image, and color space identification information that expresses a color space related to the main image data, the main image data and the thumbnail image data and the color space identification information being associated with one another;

selecting one of the main image data and the thumbnail image data as a processing target;

if the thumbnail image is the processing target, executing a prescribed basic color space conversion regardless of content of the color space identification information to obtain first converted image data of the thumbnail image; and

if the thumbnail image is the processing target, executing a specified color space conversion utilizing a color space specified by the color space identification information to obtain second converted image data of the main image,

the first and second converted image data being expressed by an identical color system.

4. (original): An image processing method according to Claim 3, wherein the color space specified by the color space identification information is the particular color space.

5. (currently amended): A computer program product for reproducing an image based on an image data set including main image data that represents a main image, thumbnail image data that represents a thumbnail image of the main image, and color space identification information that expresses a color space related to the main image data, the main image data and the thumbnail image data and the color space identification information being associated with one another, the computer program product comprising:

a computer-readable medium; and

a computer program stored on the computer-readable medium,

wherein the color space identification information can indicate which of multiple color spaces including a prescribed standard color space and a particular color space is to be used,

the computer program comprising:

a function to execute a selection of one of the main image data and the thumbnail image data as a processing target;

a function to execute, if the thumbnail image is the processing target, a prescribed basic color space conversion regardless of content of the color space identification information to obtain first converted image data of the thumbnail image; and

a function to execute, if the thumbnail image is the processing target, a specified color space conversion utilizing a color space specified by the color space identification information to obtain second converted image data of the main image,

the first and second converted image data being expressed by an identical color system.

6. (original): A computer program product according to Claim 5, wherein the color space specified by the color space identification information is the particular color space.

7. (currently amended): An image display device, comprising
an information acquisition unit that acquires color space information that specifies a color space related to image data representing a main image; and
a display unit that,

if the main image is to be displayed, displays the main image using a device-dependent color space for the display unit, the main image being converted by a first color space conversion according to from the color space specified by the color space information to the device-dependent color space, and

if a thumbnail image of the main image is to be displayed, displays the thumbnail image using the device-dependent color space for the display unit, the thumbnail image being converted by a prescribed second color space conversion from a prescribed color space to the device-dependent color space regardless of the color space information.

8. (previously presented): The image display device according to Claim 7, wherein the information acquisition unit acquires the color space information from an image data file containing the image data.

9. (previously presented): The image display device according to Claim 8, wherein the color space information specifies Adobe RGB color space.

10. (previously presented): The image display device according to Claim 9, wherein the display unit is able to display a plurality of the thumbnail images in a single window.

11. (previously presented): The image display device according to Claim 10, wherein the image data is JPEG compressed data.

12. (previously presented): The image display device according to Claim 8, wherein the color space information specifies a color space that is larger than sRGB color space.

13. (previously presented): The image display device according to Claim 12, wherein the display unit is able to display a plurality of the thumbnail images in a single window.

14. (previously presented): The image display device according to Claim 13, wherein the image data is JPEG compressed data.

15. (previously presented): The image display device according to Claim 8, wherein the display unit is able to display a plurality of the thumbnail images in a single window.

16. (previously presented): The image display device according to Claim 15, wherein the image data is JPEG compressed data.

17. (previously presented): The image display device according to Claim 8, wherein the image data is JPEG compressed data.

18. (currently amended): An image display method, comprising:
acquiring color space information that specifies a color space related to image data
representing a main image; and

if the main image is to be displayed, displaying the main image using a device-dependent color space for the display unit, the main image being converted by a first color space conversion according to from the color space specified by the color space information to the device-dependent color space, and

if a thumbnail image of the main image is to be displayed, displaying the thumbnail image using the device-dependent color space for the display unit, the thumbnail image being converted by a prescribed second color space conversion from a prescribed color space to the device-dependent color space regardless of the color space information.

19. (currently amended): A computer program product for displaying an image,
comprising:

a computer readable medium; and

a computer program stored on the computer readable medium, the computer program
includes:

a program code that causing a computer to acquire color space information that specifies
a color space related to image data representing ~~ana~~ a main image; and

a program code that causes the computer,

if the main image is to be displayed, to display the main image using a device-dependent color space for the display unit, the main image being converted by color space conversion

~~according to~~ from the color space specified by the color space information to the device-
dependent color space, and

if a thumbnail image of the main image is to be displayed, to display the thumbnail image
using the device-dependent color space for the display unit, the thumbnail image being converted
~~by a prescribed color space conversion from a prescribed color space to the device-dependent~~
color space regardless of the color space information.

20. (previously presented): The image processing apparatus according to Claim 2,
wherein the processing target image data is to be displayed, and wherein the particular color
space is larger than sRGB color space.

21. (currently amended): The image processing method according to Claim 4,
wherein the processing target image data is to be displayed, and wherein the particular color
space is larger than sRGB color space.

22. (previously presented): The image processing apparatus according to Claim 2,
wherein the processing target image data is to be printed, and wherein the particular color space
is larger than sRGB color space.

23. (previously presented): The image processing method according to Claim 4,
wherein the processing target image data is to be printed, and wherein the particular color space
is larger than sRGB color space,

24. (previously presented): The image display device according to Claim 7, wherein the image display device is provided in a printer.

25. (currently amended): An ~~The~~ image reproducing apparatus, comprising an information acquisition unit that acquires color space information that specifies a color space related to image data representing a main image; and a display unit that,

if the main image is to be displayed, displays the main image using a device-dependent color space for the display unit, the main image being converted by a first color space conversion according to from the color space specified by the color space information to the device-dependent color space, and

if a thumbnail image of the main image is to be displayed, displays the thumbnail image using the device dependent color space for the display unit, the thumbnail image being converted by a prescribed second color space conversion from a prescribed color space to the device-dependent color space regardless of the color space information.

26. (previously presented): The image reproducing apparatus according to Claim 25, wherein the color space information specifies a color space that is larger than sRGB color space, and

wherein the image reproducing apparatus is a printer.

27. (previously presented): The image reproducing apparatus according to Claim 25, wherein the color space information specifies a color space that is larger than sRGB color space, and

wherein the image reproducing apparatus is a computer.

28. (previously presented): The image display method according to Claim 18, wherein

the acquiring color space information includes acquiring the color space information from an image data file containing the image data.

29. (previously presented): The image display method according to Claim 28, wherein the color space information specifies Adobe RGB color space.

30. (previously presented): The image display method according to Claim 29, wherein a plurality of the thumbnail images are displayed in a single window.

31. (previously presented): The image display method according to Claim 30, wherein the image data is JPEG compressed data.